

APPARATUS AND METHOD OF REMOVING OCCLUSIONS USING AN ULTRASONIC MEDICAL DEVICE OPERATING IN A TRANSVERSE MODE

Abstract

5 A method for removing an occlusion is provided comprising introducing a transverse
mode ultrasonic probe into a blood vessel, positioning the probe in proximity to the occlusion,
and transmitting ultrasonic energy to the probe, until the occlusion is removed. The probe has a
small cross-sectional lumen and is articulable for navigating in a tortuous vessel path. The probe
can be used with acoustic and/or aspirations sheaths to enhance destruction and removal of an
occlusion. The probe can also be used with a balloon catheter. The probe, sheaths, and catheter
10 can be provided in a sharps container which further provides a means of affixing and detaching
the probe from an ultrasonic medical device.